

FIGURE 1

1/1	31/11
GAC GAA AGG GCC TCG TGA TAC GCC TAT TTT	TAT AGG TTA ATG TCA TGA TAA TAA TGG TTT
61/21	91/31
CTT AGA CGT CAG GTG GCA CTT TTC GGG GAA	ATG TGC GCG GAA CCC CTA TTT GTT TAT TTT
121/41	151/51
TCT AAA TAC ATT CAA ATA TGT ATC CGC TCA	TGA GAC AAT AAC CCT GAT AAA TGC TTC AAT
181/61	211/71
AAT ATT GAA AAA GGA AGA GTA TGA GTA TTC	AAC ATT TCC GTG TCG CCC TTA TTC CCT TTT
241/81	271/91
TTG CGG CAT TTT GCC TTC CTG TTT TTG CTC	ACC CAG AAA CGC TGG TGA AAG TAA AAG ATG
301/101	331/111
CTG AAG ATC AGT TGG GTG CAC GAG TGG GTT	ACA TCG AAC TGG ATC TCA ACA GCG GTA AGA
361/121	391/131
TCC TTG AGA GTT TTC GCC CCG AAG AAC GTT	CTC CAA TGA TGA GCA CTT TTA AAG TTC TGC
421/141	451/151
TAT GTG GCG CGG TAT TAT CCC GTA TTG ACG	CCG GGC AAG AGC AAC TGG GTC GCC GCA TAC
481/161	511/171
ACT ATT CTC AGA ATG ACT TGG TTG AGT ACT	CAC CAG TCA CAG AAA AGC ATC TTA CGG ATG
541/181	571/191
GCA TGA CAG TAA GAG AAT TAT GCA GTG CTG	CCA TAA CCA TGA GTG ATA ACA CTG CGG CCA
601/201	631/211
ACT TAC TTC TGA CAA CGA TCG GAG GAC CGA	AGG AGC TAA CCG CTT TTT TGC ACA ACA TGG
661/221	691/231
GGG ATC ATG TAA CTC GCC TTG ATC GTT GGG	AAC CGG AGC TGA ATG AAG CCA TAC CAA ACG
721/241	751/251
ACG AGC GTG ACA CCA CGA TGC CTG TAG CAA	TGG CAA CAA CGT TGC GCA AAC TAT TAA CTG
781/261	811/271
GCG AAC TAC TTA CTC TAG CTT CCC GGC AAC	AAT TAA TAG ACT GGA TGG AGG CGG ATA AAG
841/281	871/291
TTG CAG GAC CAC TTC TGC GCT CGG CCC TTC	CGG CTG GCT GGT TTA TTG CTG ATA AAT CTG
901/301	931/311
GAG CCG GTG AGC GTG GGT CTC GCG GTA TCA	TTG CAG CAC TGG GGC CAG ATG GTA AGC CCT
961/321	991/331
CCC GTA TCG TAG TTA TCT ACA CGA CGG GGA	GTC AGG CAA CTA TGG ATG AAC GAA ATA GAC
1021/341	1051/351
AGA TCG CTG AGA TAG GTG CCT CAC TGA TTA	AGC ATT GGT AAC TGT CAG ACC AAG TTT ACT
1081/361	1111/371
CAT ATA TAC TTT AGA TTG ATT TAA AAC TTC	ATT TTT AAT TTA AAA GGA TCT AGG TGA AGA
1141/381	1171/391
TCC TTT TTG ATA ATC TCA TGA CCA AAA TCC	CTT AAC GTG AGT TTT CGT TCC ACT GAG CTT
1201/401	1231/411
CAG ACC CCG TAG AAA AGA TCA AAG GAT CTT	CTT GAG ATC CTT TTT TTC TGC GCG TAA TCT
1261/421	1291/431
GCT GCT TGC AAA CAA AAA AAC CAC CGC TAC	CAG CGG TGG TTT GTT TGC CGG ATC AAG AGC
1321/441	1351/451
TAC CAA CTC TTT TTC CGA AGG TAA CTG GCT	TCA GCA GAG CGC AGA TAC CAA ATA CTG TCC
1381/461	1411/471
TTC TAG TGT AGC CGT AGT TAG GCC ACC ACT	TCA AGA ACT CTG TAG CAC CGC CTA CAT ACC
1441/481	1471/491
TCG CTC TGC TAA TCC TGT TAC CAG TGG CTG	CTG CCA GTG GCG ATA AGT CGT GTC TTA CCG
1501/501	1531/511
GGT TGG ACT CAA GAC GAT AGT TAC CGG ATA	AGG CCG AGC GGT CGG GCT GAA CGG GGG GTT
1561/521	1591/531
CGT GCA CAC AGC CCA GCT TGG AGC GAA CGA	CCT ACA CCG AAC TGA GAT ACC TAC AGC GTG
1621/541	1651/551
AGC TAT GAG AAA GCG CCA CGC TTC CCG AAG	GGA GAA AGG CGG ACA GGT ATC CGG TAA GCG

FIGURE 2A

3061/1021
 CTG GGA AAA CCC TGG CGT TAC CCA ACT TAA TCG CCT TGC AGC ACA TCC CCC TTT CGC CAG
 3121/1041
 CTG GCG TAA TAG CGA AGA GGC CCG CAC CGA TCG CCC TTC CCA ACA GTT GCG CAG CCT GAA
 3181/1061
 TGG CGA ATG GCG CCT GAT GCG GTA TTT TCT CCT TAC GCA TCT GTG CGG TAT TTC ACA CCG
 3241/1081
 CAT ATG GTG CAC TCT CAG TAC AAT CTG CTC TGA TGC CGC ATA GTT AAG CCA GCC CCG ACA
 3301/1101
 CCC GCC AAC ACC CGC TGA CGC GCC CTG ACG GGC TTG TCT GCT CCC GGC ATC CGC TTA CAG
 3361/1121
 ACA AGC TGT GAC CGT CTC CGG GAG CTG CAT GTG TCA GAG GTT TTC ACC GTC ATC ACC GAA
 3421/1141
 ACG CGC

FIGURE 2C

Insert 1

1/1 31/11
 CAT CTC ATC CAC AAT GTC CAC AAA GAG GAG CAC GCT CAT GCC CAC AAC
 his leu ile his asn val his lys glu glu his ala his ala his asn

Insert 2

1/1 31/11
 CAT AAC CAT AAC CAT AAC CAT AAC CAT AAC CAT AAC
 his asn his asn his asn his asn his asn his asn his asn

Insert 3

1/1 31/11
 CAT GAT GAT CAT GAT GAT CAT GAT GAT CAT GAT GAT CAT GAT GAT GAT GAT
 his asp asp his asp asp his asp asp his asp asp his asp asp his asp asp

Insert 4

1/1 31/11
 CAT GAG GAG CAT GAG GAG CAT GAG GAG CAT GAG GAG CAT GAG GAG CAT GAG GAG
 his glu glu his glu glu his glu glu his glu glu his glu glu his glu glu

Insert 5

1/1 31/11
 CAT GAT GAG CAT GAT GAG CAT GAG AAC CAT GAG AAC CAT GAG GAT CAT GAG GAT
 his asp glu his asp glu his glu asn his glu asn his glu asp his glu asp

FIGURE 3

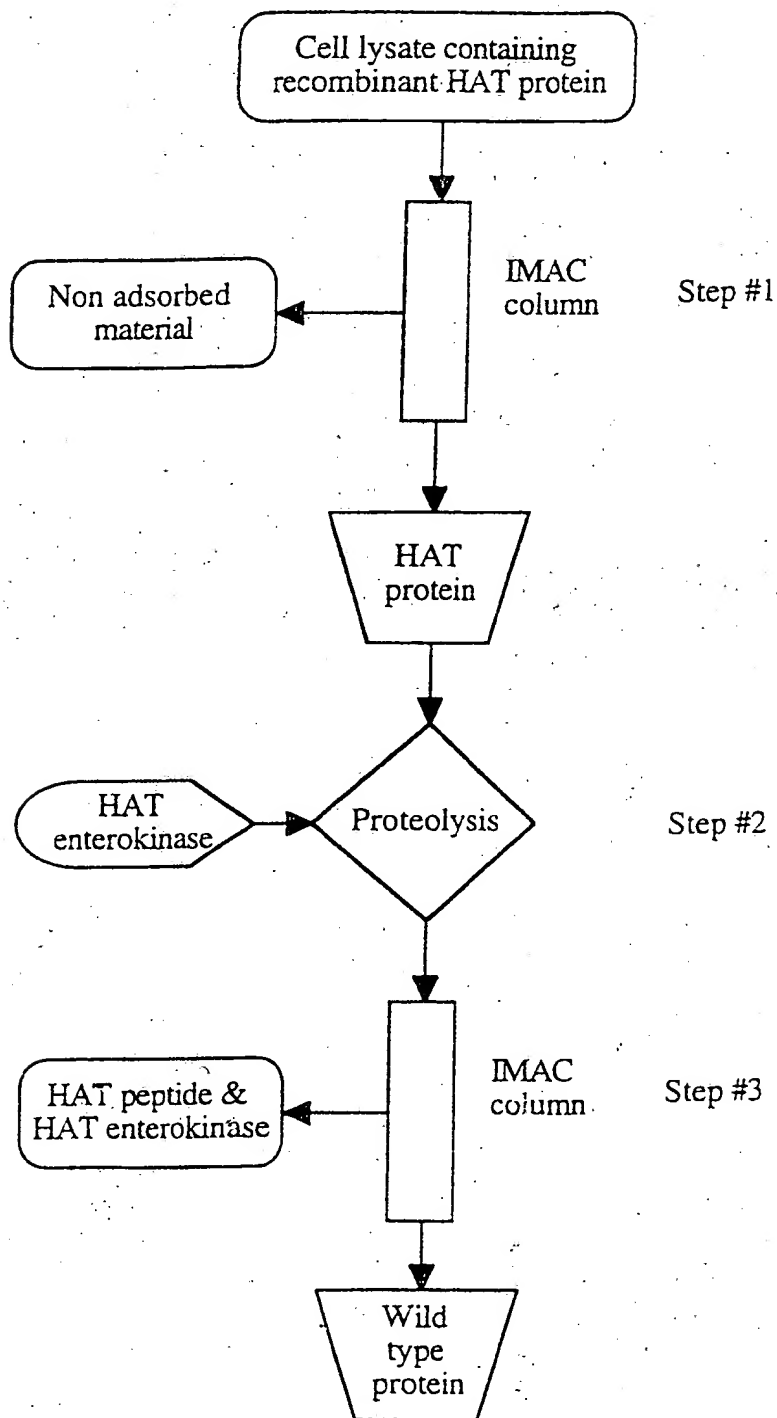
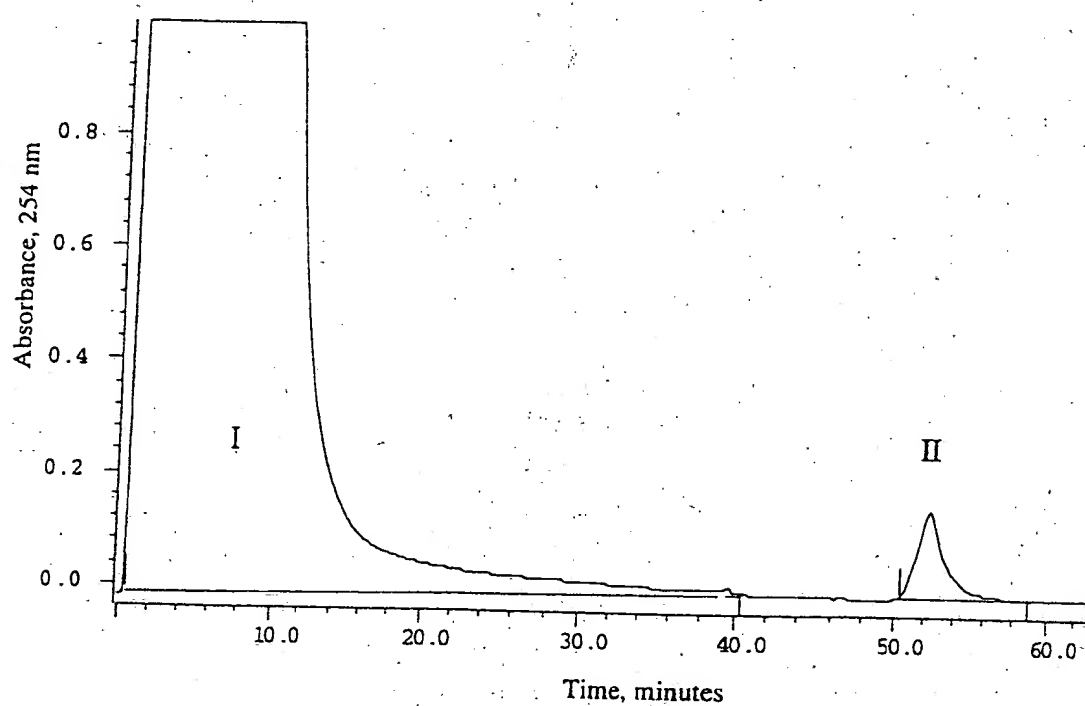


FIGURE 4



Sample: HN6-DHFR expressing E.coli cells (0.54 g) extracted in 4.35 mL of 50 mM sodium phosphate; 0.3 M NaCl; 10 mM imidazole pH 7.0
Column: 3.5 x 1 cm.i.d. Co(II)-carboxymethylaspartate-agarose (Superflow) equilibrated with the extraction buffer
Flow rate: 1 mL per minute (1.25 cm per minute)
Peak I - non adsorbed material
Peak II - HAT-DHFR

FIGURE 5

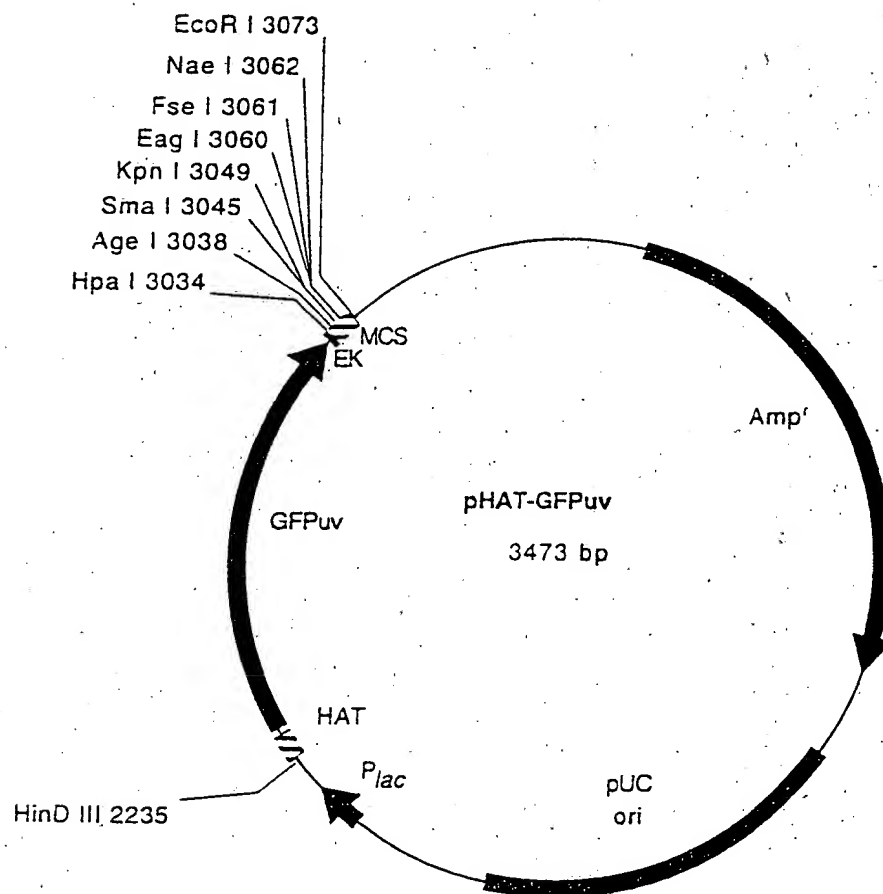


FIGURE 6